Fig.1

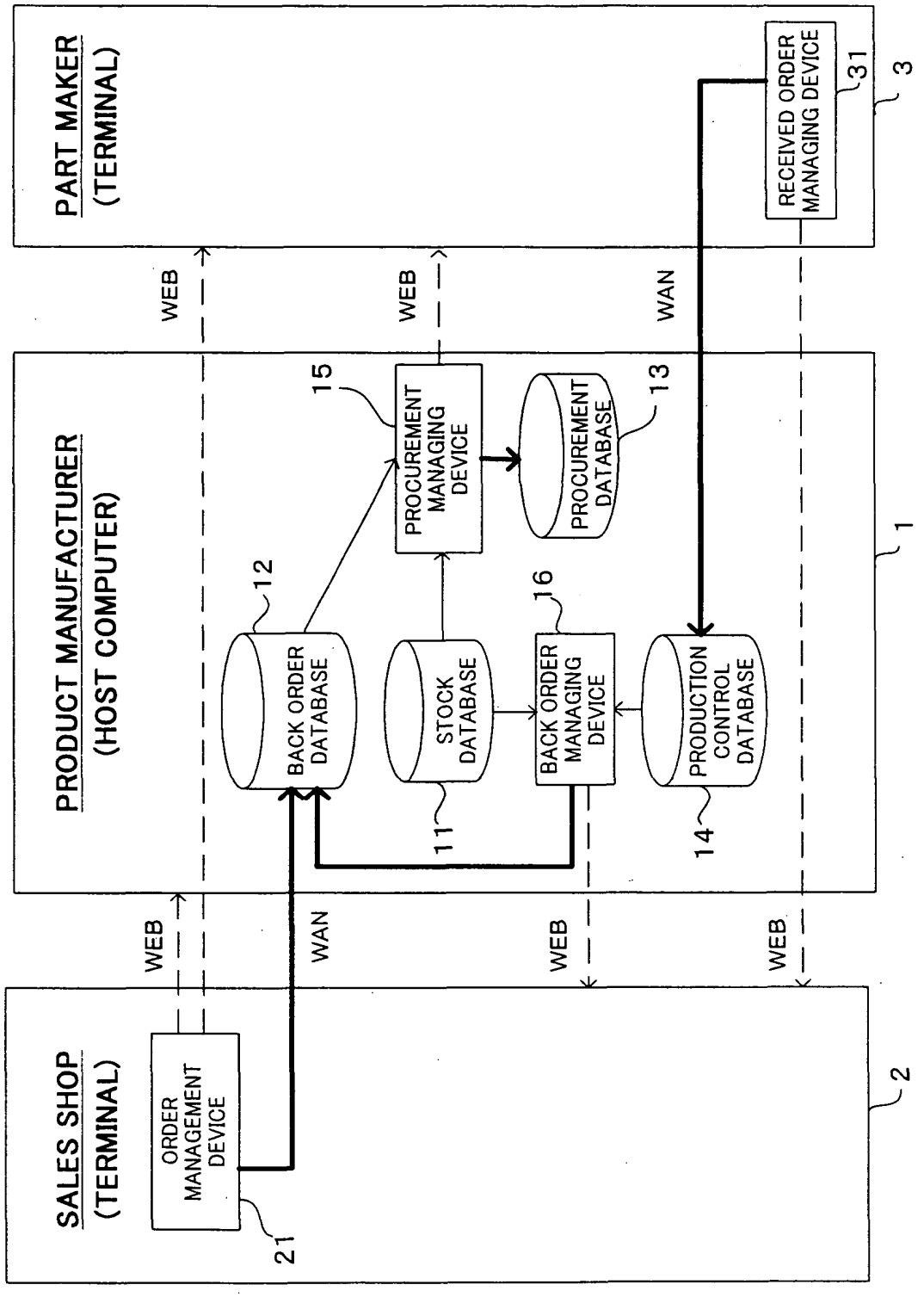

SALES SHOP
(TERMINAL)
ORDER MANAGEMENT DEVICE
21
2
PRODUCT MANUFACTURER
(HOST COMPUTER)
BACK ORDER DATABASE
12
STOCK DATABASE
11
BACK ORDER MANAGING DEVICE
16
PRODUCTION CONTROL DATABASE
14
PROCUREMENT MANAGING DEVICE
15
PROCUREMENT DATABASE
13
1
PART MAKER
(TERMINAL)
RECEIVED ORDER MANAGING DEVICE
31
3
WEB
WAN
WEB
WEB
WEB
WAN
WEB
WEB

Fig.2

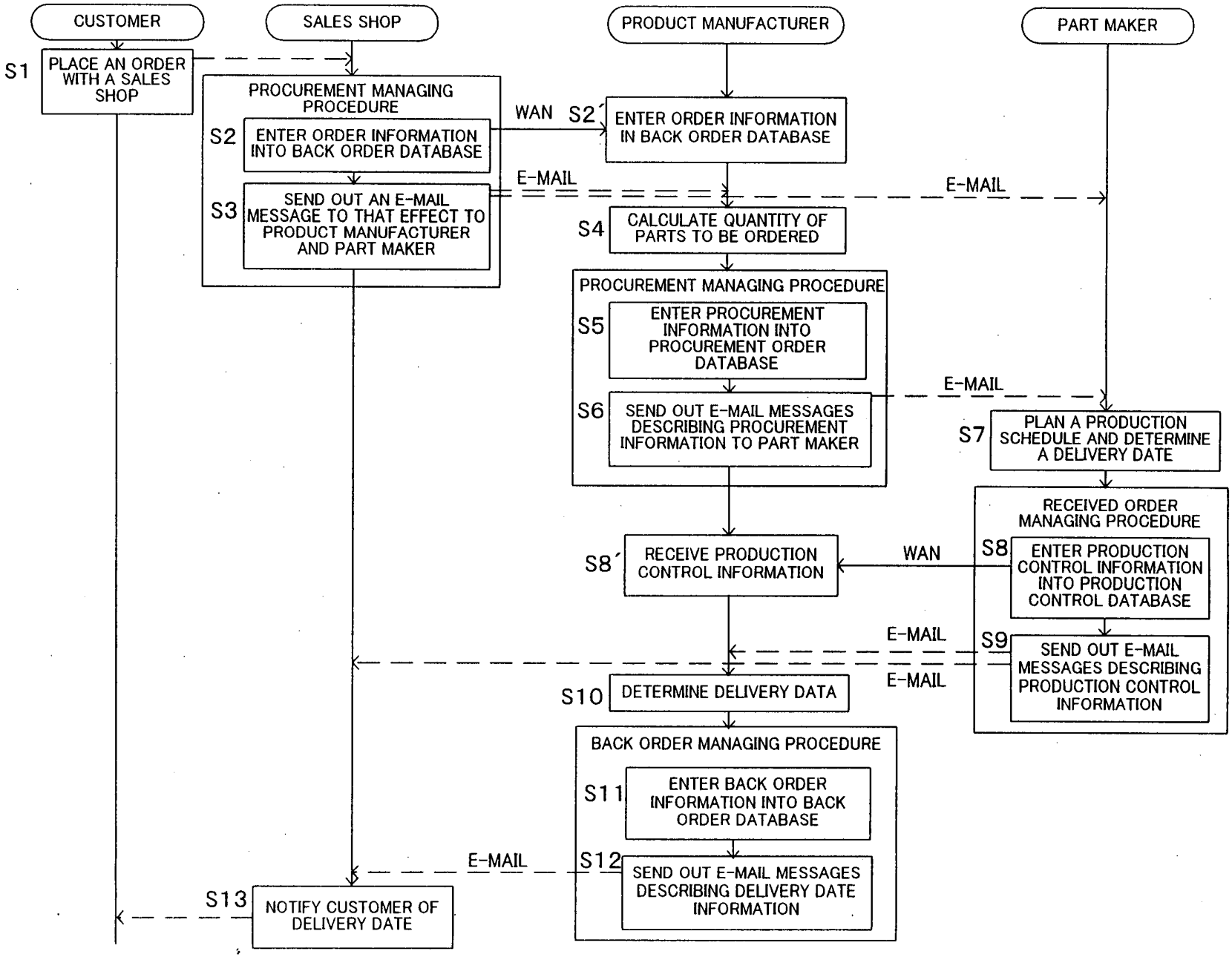

CUSTOMER
SALES SHOP
PRODUCT MANUFACTURER
PART MAKER
S1
PLACE AN ORDER WITH A SALES SHOP
PROCUREMENT MANAGING PROCEDURE
S2
ENTER ORDER INFORMATION INTO BACK ORDER DATABASE
S3
SEND OUT AN E-MAIL MESSAGE TO THAT EFFECT TO PRODUCT MANUFACTURER AND PART MAKER
WAN
S2'
ENTER ORDER INFORMATION IN BACK ORDER DATABASE
E-MAIL
E-MAIL
S4
CALCULATE QUANTITY OF PARTS TO BE ORDERED
PROCUREMENT MANAGING PROCEDURE
S5
ENTER PROCUREMENT INFORMATION INTO PROCUREMENT ORDER DATABASE
S6
SEND OUT E-MAIL MESSAGES DESCRIBING PROCUREMENT INFORMATION TO PART MAKER
E-MAIL
S7
PLAN A PRODUCTION SCHEDULE AND DETERMINE A DELIVERY DATE
RECEIVED ORDER MANAGING PROCEDURE
S8
ENTER PRODUCTION CONTROL INFORMATION INTO PRODUCTION CONTROL DATABASE
WAN
S8'
RECEIVE PRODUCTION CONTROL INFORMATION
E-MAIL
S9
SEND OUT E-MAIL MESSAGES DESCRIBING PRODUCTION CONTROL INFORMATION
E-MAIL
S10
DETERMINE DELIVERY DATA
BACK ORDER MANAGING PROCEDURE
S11
ENTER BACK ORDER INFORMATION INTO BACK ORDER DATABASE
E-MAIL
S12
SEND OUT E-MAIL MESSAGES DESCRIBING DELIVERY DATE INFORMATION
S13
NOTIFY CUSTOMER OF DELIVERY DATE

Fig.3

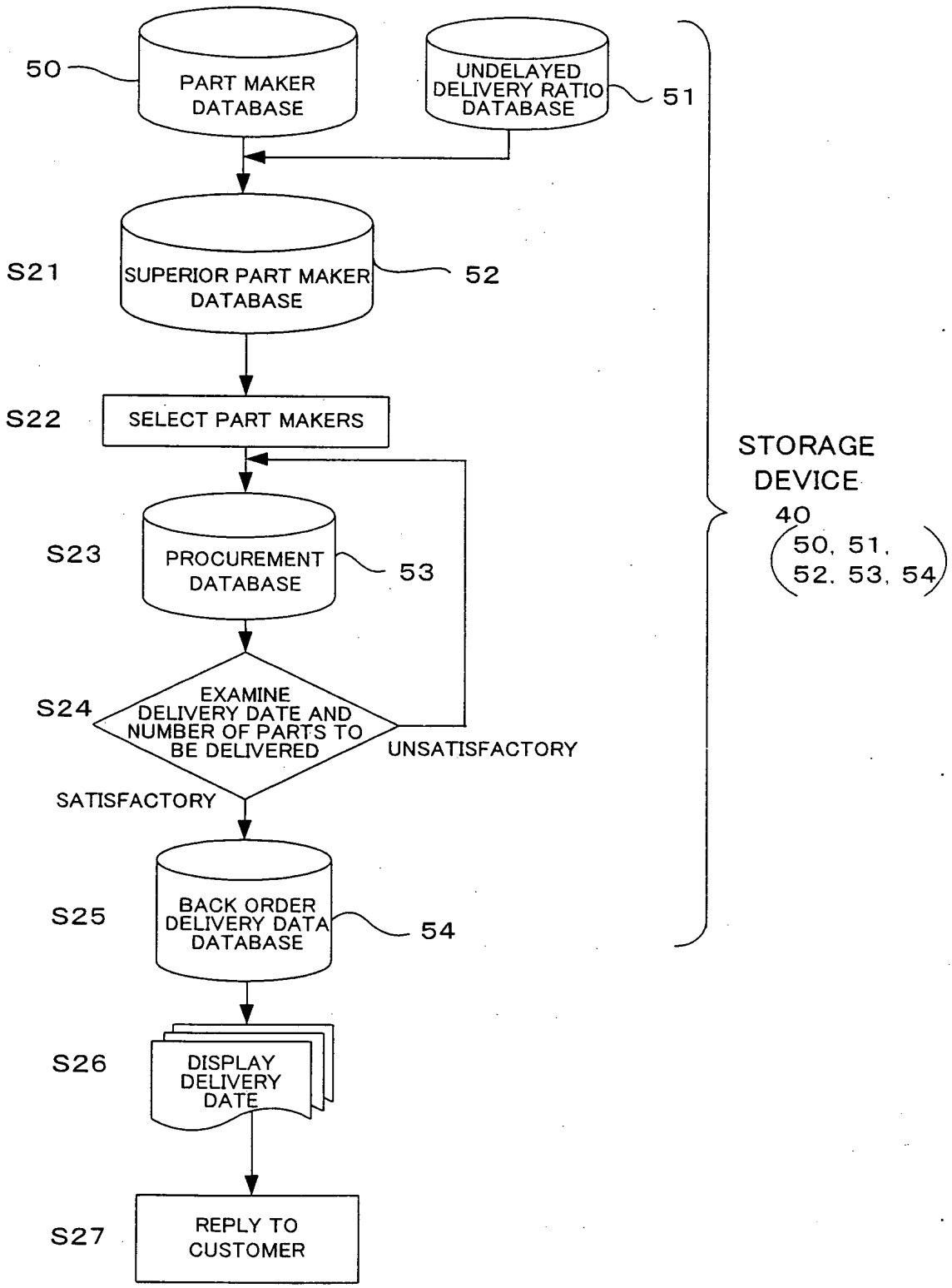
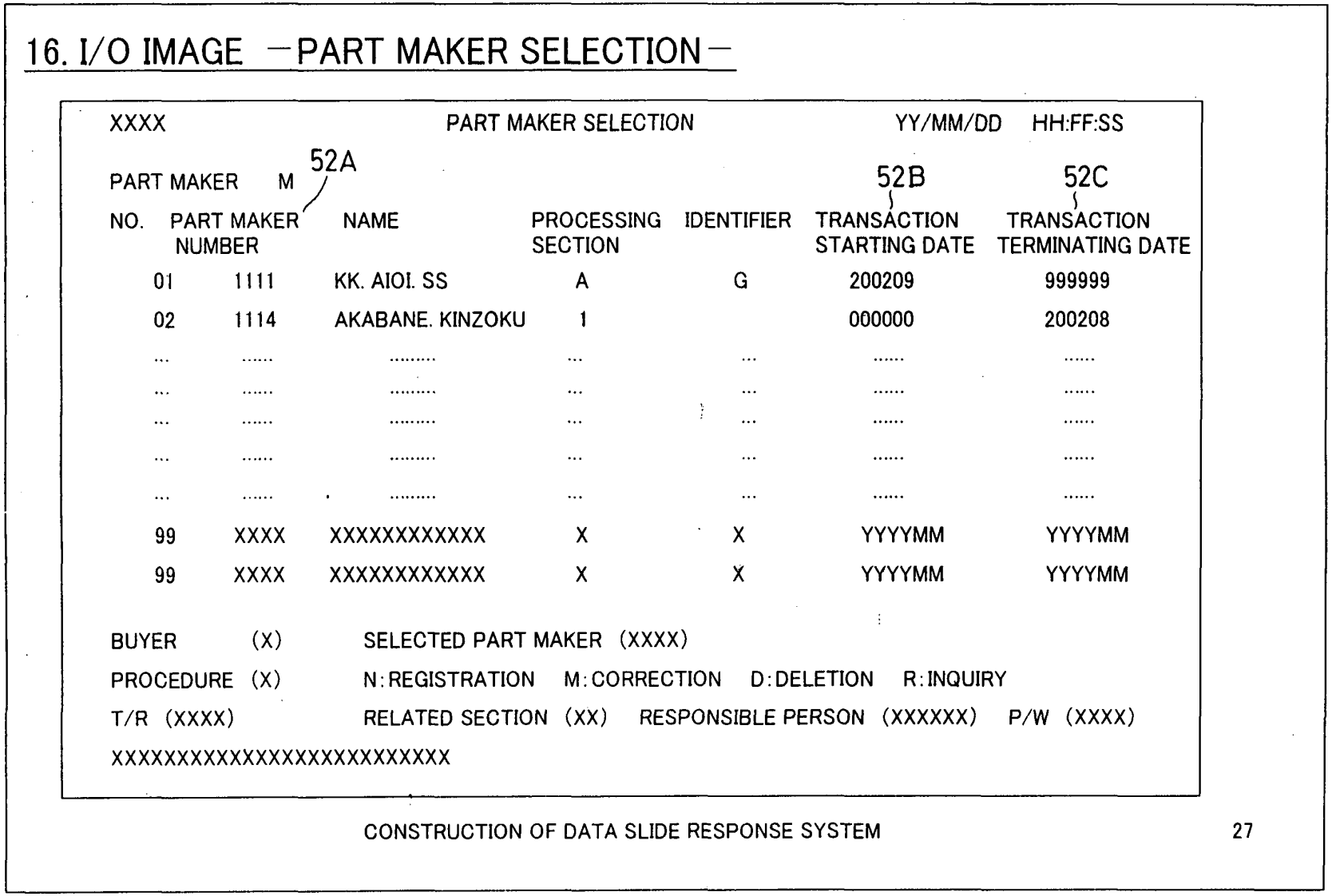

50
PART MAKER DATABASE
UNDELAYED DELIVERY RATIO DATABASE
51
S21
SUPERIOR PART MAKER DATABASE
52
S22
SELECT PART MAKERS
S23
PROCUREMENT DATABASE
53
S24
EXAMINE DELIVERY DATE AND NUMBER OF PARTS TO BE DELIVERED
UNSATISFACTORY
SATISFACTORY
S25
BACK ORDER DELIVERY DATA DATABASE
54
S26
DISPLAY DELIVERY DATE
S27
REPLY TO CUSTOMER
STORAGE DEVICE
40
(50, 51, 52, 53, 54)

Fig.4



16. I/O IMAGE －PART MAKER SELECTION－

XXXX　　PART MAKER SELECTION　　YY/MM/DD　HH:FF:SS

PART MAKER　M　　52A　52B　52C

NO.	PART MAKER NUMBER	NAME	PROCESSING SECTION	IDENTIFIER	TRANSACTION STARTING DATE	TRANSACTION TERMINATING DATE
01	1111	KK. AIOI. SS	A	G	200209	999999
02	1114	AKABANE. KINZOKU	1		000000	200208
...	.....	.....	...	...	.....	.....
...	.....	.....	...	...	.....	.....
...	.....	.....	...	...	.....	.....
...	.....	.....	...	...	.....	.....
...	.....	.....	...	...	.....	.....
99	XXXX	XXXXXXXXXXXX	X	X	YYYYMM	YYYYMM
99	XXXX	XXXXXXXXXXXX	X	X	YYYYMM	YYYYMM

BUYER　(X)　　SELECTED PART MAKER　(XXXX)

PROCEDURE　(X)　　N:REGISTRATION　M:CORRECTION　D:DELETION　R:INQUIRY

T/R　(XXXX)　　RELATED SECTION　(XX)　RESPONSIBLE PERSON　(XXXXXX)　P/W　(XXXX)

XXXXXXXXXXXXXXXXXXXXXXXXX

CONSTRUCTION OF DATA SLIDE RESPONSE SYSTEM　　27

Fig.5

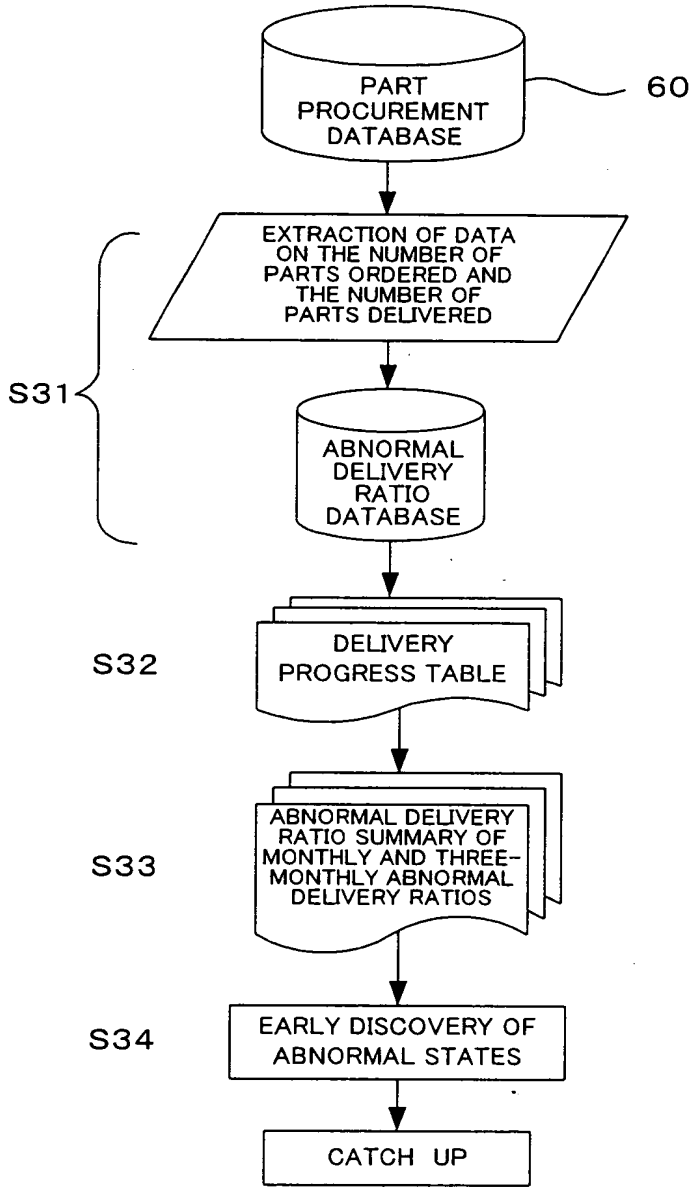

PART PROCUREMENT DATABASE
60
EXTRACTION OF DATA ON THE NUMBER OF PARTS ORDERED AND THE NUMBER OF PARTS DELIVERED
S31
ABNORMAL DELIVERY RATIO DATABASE
S32
DELIVERY PROGRESS TABLE
S33
ABNORMAL DELIVERY RATIO SUMMARY OF MONTHLY AND THREE-MONTHLY ABNORMAL DELIVERY RATIOS
S34
EARLY DISCOVERY OF ABNORMAL STATES
CATCH UP

Fig.6

16. I/O IMAGE —DELIVERY PROGRESS RECORD—

XXXX DELIVERY PROGRESS RECORD YY/MM/DD HH:FF:SS

BUSINESS CATEGORY XX RESPONSIBLE PERSON XX BUYER C PART MAKER XXXX

PRODUCT X CURRENTLY(FORMERLY) X PROCESSING SECTION 1 IDENTIFIER G CAUSE A

52A PART MAKER	52D APPOINTED DELIVERY DATE	52E DELIVERY DATE	52F PART NUMBER	52G ORDER NUMBER	BACK ORDER
2211	2002/08/04		80202-Y00-003	ZJF3592	20
2211	2002/08/07	2002/08/08	81424-Y08-003	ZJF3623	0
...	.....	.....	.....	.....	...
...	.....	.....	.....	.....	...
...	.....	.....	.....	.....	...
...	.....	.....	.....	.....	...
...	.....	.....	.....	.....	...
XXXX	YYYY/MM/DD	YYYY/MM/DD	XXXXX-XXX-XXXXXX	XXXXXXX	Z ZZ9
XXXX	YYYY/MM/DD	YYYY/MM/DD	XXXXX-XXX-XXXXXX	XXXXXXX	Z ZZ9

T/R (XXXX) KEY (XX. XX. X. XXXX. X. X. X. X. X. YYYYMMDD. YYYYMMDD)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Fig.7

16. I/O IMAGE －ABNORMAL DELIVERY INQUIRY (MONTHLY)－

XXXX　　INQUIRY ABOUT ABNORMAL DELIVERY (MONTHLY)　　YY/MM/DD　HH:FF:SS

AUG. 2002　BUSINESS CATEGORY XX　RESPONSIBLE PERSON XX　BUYER C　PART MAKER XXXX

PRODUCT X　CURRENTLY(FORMERLY) X　PROCESSING SECTION 1　IDENTIFIER G　CAUSE A

52A PART MAKER	52H PLANNED (NUMBER OF CASES)	52I ACTUAL (NUMBER OF CASES)	52J ABNORMAL DELIVERY RATIO(%)	PART MAKER	PLANNED (NUMBER OF CASES)	ACTUAL (NUMBER OF CASES)	ABNORMAL DELIVERY RATIO(%)
2211	1,800	1,750	2.78	XXXX	ZZ,ZZ9	ZZ,ZZ9	ZZ9.99
2233	1,500	1,450	3.33	XXXX	ZZ,ZZ9	ZZ,ZZ9	ZZ9.99
...	.....	.....	.....	.....	.....	.....	.....
...	.....	.....	.....	.....	.....	.....	.....
...	.....	.....	.....	.....	.....	.....	.....
...	.....	.....	.....	.....	.....	.....	.....
...	.....	.....	.....	.....	.....	.....	.....
XXXX	ZZ,ZZ9	ZZ,ZZ9	ZZ9.99	XXXX	ZZ,ZZ9	ZZ,ZZ9	ZZ9.99
XXXX	ZZ,ZZ9	ZZ,ZZ9	ZZ9.99	XXXX	ZZ,ZZ9	ZZ,ZZ9	ZZ9.99

T/R　(XXXX)　　KEY　(XX. XX. X. XXXX. X. X. X. X. X. YYYYMM)

XXXX

Fig.8

16. I/O IMAGE －B/O HIT RATIO INQUIRY (MONTHLY)－

XXXX　　B/O HIT RATIO INQUIRY (MONTHLY)　　YY/MM/DD　HH:FF:SS

AUG. 2002　BUSINESS CATEGORY XX　RESPONSIBLE PERSON XX　BUYER C　PART MAKER XXXX

PRODUCT X　CURRENTLY(FORMERLY) X　PROCESSING SECTION 1　IDENTIFIER G　CAUSE A

52A PART MAKER	52K ORDINARY ORDER (NUMBER)	52L B/O (NUMBER)	52M HIT RATIO (%)	PART MAKER	ORDINARY ORDER (NUMBER)	B/O (NUMBER)	HIT RATIO (%)
AA11	1,250	480	38.40	XXXX	ZZZ,ZZ9	ZZ,ZZ9	ZZ9.99
AA11	960	620	64.58	XXXX	ZZZ,ZZ9	ZZ,ZZ9	ZZ9.99
...	.....	.....	.....	.....	.....	.....	.....
...	.....	.....	.....	.....	.....	.....	.....
...	.....	.....	.....	.....	.....	.....	.....
...	.....	.....	.....	.....	.....	.....	.....
...	.....	.....	.....	.....	.....	.....	.....
...	.....	.....	.....	.....	.....	.....	.....
XXXX	ZZZ,ZZ9	ZZ,ZZ9	ZZ9.99	XXXX	ZZZ,ZZ9	ZZ,ZZ9	ZZ9.99
XXXX	ZZZ,ZZ9	ZZ,ZZ9	ZZ9.99	XXXX	ZZZ,ZZ9	ZZ,ZZ9	ZZ9.99

T/R　(XXXX)　　KEY　(XX. XX. X. XXXX. X. X. X. X. X. YYYYMM)

XXXX

Fig.9

16. I/O IMAGE —B/O DELIVERY RATIO INQUIRY (MONTHLY)—

XXXX B/O DELIVERY RATIO INQUIRY (MONTHLY) YY/MM/DD HH:FF:SS

AUG. 2002 BUSINESS CATEGORY XX RESPONSIBLE PERSON XX BUYER C PART MAKER XXXX

PRODUCT X CURRENTLY(FORMERLY) X PROCESSING SECTION 1 IDENTIFIER G CAUSE A

52A PART MAKER	52P PLANNED DELIVERY (NUMBER OF ORDERS)	52Q ACTUAL DELIVERY (NUMBER OF ORDERS)	52R DELIVERY RATIO (%)	PART MAKER	PLANNED DELIVERY (NUMBER OF ORDERS)	ACTUAL DELIVERY (NUMBER OF ORDERS)	DELIVERY RATIO (%)
AA11	1,250	1,180	94.40	XXXX	ZZZ,ZZ9	ZZ,ZZ9	ZZ9.99
AA11	960	933	97.19	XXXX	ZZZ,ZZ9	ZZ,ZZ9	ZZ9.99
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
XXXX	ZZZ,ZZ9	ZZ,ZZ9	ZZ9.99	XXXX	ZZZ,ZZ9	ZZ,ZZ9	ZZ9.99
XXXX	ZZZ,ZZ9	ZZ,ZZ9	ZZ9.99	XXXX	ZZZ,ZZ9	ZZ,ZZ9	ZZ9.99

T/R (XXXX) KEY (XX. XX. X. XXXX. X. X. X. X. X. YYYYMM)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Fig.10

16. I/O IMAGE －B/O DELIVERY SPEED INQUIRY (MONTHLY)－

XXXX YY/MM/DD HH:FF:SS

AUG. 2002 BUSINESS CATEGORY XX RESPONSIBLE PERSON XX BUYER C PART MAKER XXXX

PRODUCT X CURRENTLY(FORMERLY) X PROCESSING SECTION 1 IDENTIFIER G CAUSE A

52A PART MAKER	52S PLANNED DELIVERY (NUMBER OF ORDERS)	52T ACTUAL DELIVERY (NUMBER OF ORDERS)	52U DELIVERY SPEED (%)	PART MAKER	PLANNED DELIVERY (NUMBER OF ORDERS)	ACTUAL DELIVERY (NUMBER OF ORDERS)	DELIVERY SPEED (%)
AA11	1,250	1,180	94.40	XXXX	ZZZ,ZZ9	ZZ,ZZ9	ZZ9.99
AA11	960	933	97.19	XXXX	ZZZ,ZZ9	ZZ,ZZ9	ZZ9.99
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
XXXX	ZZZ,ZZ9	ZZ,ZZ9	ZZ9.99	XXXX	ZZZ,ZZ9	ZZ,ZZ9	ZZ9.99
XXXX	ZZZ,ZZ9	ZZ,ZZ9	ZZ9.99	XXXX	ZZZ,ZZ9	ZZ,ZZ9	ZZ9.99

T/R (XXXX) KEY (XX. XX. X. XXXX. X. X. X. X. X. YYYYMM)

XXXX